

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., April 30, 1914.

MONTHLY LIST OF PUBLICATIONS.

[APRIL, 1914.]

No publications are sold by the Department of Agriculture; therefore do not send money to this office.

Copies of publications listed herein will be sent free upon application to the Editor and Chief, Division of Publications, Department of Agriculture, Washington, D. C., as long as the supply lasts.

When this department's supply is exhausted publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

Journal of Agricultural Research. Vol. 2. No. 1. April, 1914. Contents: Flavor of Roquefort Cheese. By James N. Currie.—Corn-Leaf Blotch Miner. By W. J. Phillips.—Coloration of the Seed Coat of Cowpeas. By Albert Mann.—Experiments with Apple Leaf-Spot Fungi. By John W. Roberts.—Longevity of Pycnospores of the Chestnut-Blight Fungus. By F. D. Heald and M. W. Gardner. Pp. 1-75, pls. 7, figs. 6. Price, 25 cents.

NOTE.—THE JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being \$2.50 per year, 12 numbers.

Experiment Station Record, Vol. XXX, No. 2, February, 1914. E. W. Allen, Ph. D., Editor. Pp. 101-200. Price, 15 cents.

Same, Vol. XXX, No. 3, Abstract Number. Pp. 201-300. Price, 15 cents.

Same, Vol. XXX, No. 4, March, 1914. Pp. 301-400. Price, 15 cents.

Same, Vol. XXX, No. 5, April, 1914. Pp. 401-500. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, 10 numbers each, at \$1 a volume.

SERVICE AND REGULATORY ANNOUNCEMENTS.

NOTE.—Contain information, instructions, and notices of a regulatory nature. Issued monthly by certain bureaus. Free distribution limited to individuals, firms, establishments, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, at 5 cents each.

Bureau of Animal Industry. March, 1914. Pp. 31-43. Apr. 25, 1914.

Bureau of Biological Survey. Regulations for the Aleutian Islands Reservation, Alaska. Pp. 2. Apr. 13, 1914.

Bureau of Chemistry. February, 1914. Pp. 21-108. Apr. 2, 1914.
Insecticide and Fungicide Board. March, 1914. Pp. 25-29. Apr. 17, 1914.

SOIL SURVEYS.

Soil Survey of Mesilla Valley, New Mexico-Texas. By J. W. Nelson and L. C. Holmes. Pp. 39, fig. 1. Map. (From F. O. Soils, 1912.) Price, 15 cents.

BULLETINS.

The Action of Manganese in Soils. By J. J. Skinner and M. X. Sullivan. Assisted by J. H. Beattie, F. R. Reid, and H. Winckelmann, Scientists in Soil Fertility Investigations. Pp. 32. Contribution from the Bureau of Soils. (Professional Paper.) Apr. 3, 1914. (Department Bulletin 42.) Price, 5 cents.

The results given in this bulletin throw considerable light on the effect of this catalytic fertility in various soils. Manganese as a fertilizer is comparatively unknown and untried in this country, so that discussion of its action is necessarily scientific, yet of great interest to those growers whose technical training induces them to experiment with new substances to increase or control crop production.

Immunization Tests With Glanders Vaccine. By John R. Mohler and Adolph Eichhorn, Pathological Division. Pp. 13. Contribution from the Bureau of Animal Industry. (Professional Paper.) Apr. 15, 1914. (Department Bulletin 70.) Price, 5 cents.

A technical discussion of the use of mallein as a diagnostic agent for glanders; of interest to veterinarians.

The Wet Lands of Southern Louisiana and Their Drainage. By Charles W. Okey, Drainage Engineer. Pp. 82, pls. 4, figs. 18. Contribution from the Office of Experiment Stations. (Professional Paper.) Apr. 30, 1914. (Department Bulletin 71.) Price, 15 cents.

Alfalfa Seed Production; Pollination Studies. By C. V. Piper, Agrostologist in Charge, and Morgan W. Evans, Roland McKee, and W. J. Morse, Scientific Assistants, Forage-Crop Investigations. Pp. 32, fig. 1. Contribution from the Bureau of Plant Industry. (Professional Paper.) Apr. 8, 1914. (Department Bulletin 75.) Price, 5 cents.

This bulletin deals with the biological problems concerned in the pollination and fecundation of the alfalfa flower. It is intended primarily for technical agronomists and botanists.

Laboratory and Field Assay of Arsenical Dipping Fluids. By Robert M. Chapin, Senior Biochemist, Biochemic Division. Pp. 17, fig. 1. Contribution from the Bureau of Animal Industry. (Professional Paper.) Apr. 29, 1914. (Department Bulletin 76.) Price, 5 cents.

A popular account of laboratory tests for actual arsenious oxid and for total arsenic, together with methods of field assay for dips used in tick eradication. Of special interest to officials and others concerned with the analysis and control of these preparations.

Research Studies on the Curing of Leaf Tobacco. By W. W. Garner, Physiologist in Charge, C. W. Bacon, Assistant Physiologist, and C. L. Foubert, Assistant in Tobacco Chemistry, Tobacco and Plant-Nutrition Investigations. Pp. 40. Contribution from the Bureau of Plant Industry. (Professional Paper.) Apr. 23, 1914. (Department Bulletin 79.) Price, 5 cents.

This bulletin gives the results of a study of the physiological changes occurring in curing tobacco in the barn and is of special interest to those concerned with the improvement of tobacco curing.

Powdery Scab (*Spongospora subterranea*) of Potatoes. By I. E. Melhus, Pathologist, Cotton and Truck Disease and Sugar-Plant Investigations. Pp. 16, pls. 3. Contribution from the Bureau of Plant Industry. (Professional Paper.) Apr. 6, 1914. (Department Bulletin 82.) Price, 5 cents.

This paper will be of interest to plant pathologists and to potato growers in the northern and southern potato-growing sections.

Farmers' Institute and Agricultural Extension Work in the United States in 1913. By John Hamilton, Farmers' Institute Specialist. Pp. 40. Contribution from the Office of Experiment Stations. Apr. 22, 1914. (Department Bulletin 83.) Price, 5 cents.

This publication is of interest to farmers' institute workers in the United States and Canada.

Experiments with Udo, the New Japanese Vegetable. By David Fairchild, Agricultural Explorer in Charge of the Office of Foreign Seed and Plant Introduction. Pp. 15, figs. 12. Contribution from the Bureau of Plant Industry. Apr. 16, 1914. (Department Bulletin 84.) Price, 5 cents.

Results of experiments in Maryland. Gives methods of cultivation, preparing, and cooking. Adapted to New England, the Atlantic States as far south as the Carolinas, the rainy region of Puget Sound, and the truck sections of California about Sacramento.

The Cost of Pasteurizing Milk and Cream. By John T. Bowen, Technologist, Dairy Division. Pp. 12, fig. 1. Contribution from the Bureau of Animal Industry. (Professional paper.) Apr. 27, 1914. (Department Bulletin 85.) Price, 5 cents.

This bulletin deals with the cost of pasteurization from an engineering point of view. It contains desirable information for proprietors of creameries and milk plants and for designers and manufacturers of pasteurizing apparatus.

The Temperature of the Honey Bee Cluster in Winter. By E. F. Phillips, Ph. D., in Charge of Bee Culture Investigations, and George S. Demuth, Agricultural Assistant. Pp. 16, figs. 2. Contribution from the Bureau of Entomology. Apr. 30, 1914. (Department Bulletin 93.) Price, 5 cents.

This bulletin presents studies of bees as affected by temperature conditions during winter and is of special interest to beekeepers in the North.

Alum in foods. Pp. 7. Contribution from the Referee Board of Consulting Scientific Experts. (Professional Paper.) Apr. 29, 1914. (Department Bulletin 103.) Price, 5 cents.

Findings of the Referee Board of Consulting Experts on the effects of the use of alum in food.

American Black Flies or Buffalo Gnats. By J. K. Malloch, Entomological Assistant. Pp. 72, pls. 6. Apr. 6, 1914. (Technical series, No. 26, Bureau of Entomology.) Price, 15 cents.

The Organic Nitrogen of Hawaiian Soils. By W. P. Kelley, Chemist, and Alice R. Thompson, Assistant Chemist. Pp. 22. Apr. 25, 1914. (Bulletin 33, Hawaii Agricultural Experiment Station.) Price, 5 cents.

FARMERS' BULLETINS.

Texas or Tick Fever. By John R. Mohler, Chief of the Pathological Division. Pp. 24, figs. 5. Contribution from the Bureau of Animal Industry, Mar. 21, 1914. (Farmers' Bulletin 569.)

This bulletin is a revision of and supersedes Farmers' Bulletin 258. It is of interest to farmers throughout the South.

The Angora Goat. By L. L. Heller, Animal Husbandry Division. Pp. 16, figs. 6. Contribution from the Bureau of Animal Industry. Apr. 27, 1914. (Farmers' Bulletin 573.)

This is a popular paper suitable for present and prospective Angora goat raisers; it is especially adapted to the Southwest and the recently cleared portions of the North and Northwest.

Poultry House Construction. By Alfred R. Lee, Junior Animal Husbandman in Poultry Investigations, Animal Husbandry Division. Pp. 20, figs. 13. Contribution from the Bureau of Animal Industry. Apr. 7, 1914. (Farmers' Bulletin 574.)

This bulletin gives practical instruction for locating and constructing poultry houses. It is adapted for general circulation.

Crimson Clover: Utilization. By J. M. Westgate, Agronomist in Charge of Clover Investigations, Office of Forage-Crop Investigations. Pp. 10, figs. 7. Contribution from the Bureau of Plant Industry. Apr. 17, 1914. (Farmers' Bulletin 579.)

This publication gives time of cutting, methods of harvesting, feeding value, and use as a soiling crop, as pasture, as a soil improver, and as a cover crop. Adapted to the Eastern States.

Beef Production in the South. By W. F. Ward, Senior Animal Husbandman in Beef Cattle Investigations, Animal Husbandry Division, and Dan T. Gray, Chief of the Animal Husbandry Division of the North Carolina Experiment Station. Pp. 20, figs. 9. Contribution from the Bureau of Animal Industry. Apr. 18, 1914. (Farmers' Bulletin 580.)

Gives instruction in handling and feeding beef cattle, the best breeds for the South, and the best pasture plants. Adapted to the Southern States.



The Agricultural Outlook. Contribution from the Bureau of Statistics. (Crop Estimates). Apr. 23, 1914. Pp. 20. (Farmers' Bulletin 590.)

Contents.—Losses of live stock—Winter wheat forecast—Florida and California crop report—Louisiana sugar crop of 1913—Trend of prices of farm products—How to use anti-hog-cholera serum.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weekly Weather Bulletin Nos. 4, 5, 6, for April, 1914, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. (Weekly April–September, Monthly remainder of year.) Price 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.

